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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|------------------|----------------------|-------------------------|------------------|
| 09/682,214 | 08/07/2001 | Ta-Cheng Lin | NAUP0428USA | 9827 |
| 27765 | 7590 03/19/2003 | | | |
| | PRTH AMERICA IN | EXAMINER | | |
| P.O. BOX 50 | 6 D. VA 22116 | • | HO, HO | DALV |
| MERKIFIEL | D, VA 22116 | - | | 7711 V |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2818 | |
| | | | DATE MAILED: 03/19/2003 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | Application No. | Applicant(s) | | | | | |
|--|--|---|--|--|--|--|--|
| | 09/682,214 | LIN ET AL. | | | | | |
| Office Action Summary | Examiner | Art Unit | | | | | |
| | Hoai V. Ho | 2818 | | | | | |
| The MAILING DATE of this communication ap Period for Reply | pears on the cover sheet | with the correspondence address | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status | 136(a). In no event, however, may a ly within the statutory minimum of the will apply and will expire SIX (6) MC | a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. | | | | | |
| 1) Responsive to communication(s) filed on | · | | | | | | |
| | nis action is non-final. | · | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposition of Claims | | , 5.5.2.6. | | | | | |
| 4)⊠ Claim(s) <u>1-7</u> is/are pending in the application. | | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | | |
| 6)⊠ Claim(s) <u>1-7</u> is/are rejected. | | | | | | | |
| 7) ☐ Claim(s) is/are objected to. | 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/o | r election requirement. | | | | | | |
| Application Papers | · | | | | | | |
| 9)☐ The specification is objected to by the Examine | r. | | | | | | |
| 10)⊠ The drawing(s) filed on <u>07 August 2001</u> is/are: a) \Box accepted or b)⊠ objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| 11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner. | | | | | | | |
| If approved, corrected drawings are required in reply to this Office action. | | | | | | | |
| 12) ☐ The oath or declaration is objected to by the Examiner. | | | | | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | | |
| 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | | |
| 2. Certified copies of the priority documents | | | | | | | |
| Copies of the certified copies of the priori application from the International Burn * See the attached detailed Office action for a list of | eau (PCT Rule 17 2(a)) | | | | | | |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). | | | | | | | |
| a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. | | | | | | | |
| Attachment(s) | . , | 00 == ================================ | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of Ir | Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152) | | | | | |
| S. Patent and Trademark Office | | | | | | | |

Application/Control Number: 09/682,214

Art Unit: 2818

1. Claims 1-7 are presented for examination.

Drawings

2. The drawings are objected to because of the following minor informalities:

New corrected drawings are required in this application because the drawings are unable to see all reference signs. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance. No new matter should be entered.

Correction is required.

Claim Rejections - 35 USC § 112

3. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4, lines 2 and 3, a "bit line isolation for isolating different bit lines..." is unclear and confusing. How do "different bit lines" relate to a "bit line" and a "plate line" in lines 2 and 3 of claim1?

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 5. Claims 1-7 are rejected under 35 U.S.C. 102(a) as being anticipated by Lowrey USP 6246604.

Figure 2 of Lowrey is directed to a dynamic random access (DRAM) circuitry comprising a DRAM cell (34) having a first end connected to a bit line (54) and a second end connected to a plate line (46); and a sensing amplifier (72) electrically connected to the DRAM cell for refreshing the DRAM cell and reading data from the DRAM cell; wherein the sensing amplifier is capable of changing a potential of the bit line and a potential of the plate line to write data into the DRAM cell (col. 5, lines 31-37 and col. 6, lines 11-13). See column 3, line 66 to column 4, line 22 and col. 4, lines 51-53.

- 6. The prior art made of record and not relied upon is considered pertinent to applicants' disclosure. Casper (6141270) in Fig. 1B and Asakura (5495440) in Fig. 6 disclose a semiconductor memory device having hierarchical bit line structure.
- 7. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.
- 8. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see MPEP 710.02 (b)).
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to whose telephone number is (703) 308-4839. Other inquiries of this application should be called to (703) 308-0956 or the fax number (703) 308-7722.

H. Ho

February 24, 2003

Hoai V. Ho

Primary Examiner

Art Unit 2818